

**DIN 933** similar to ISO 4017

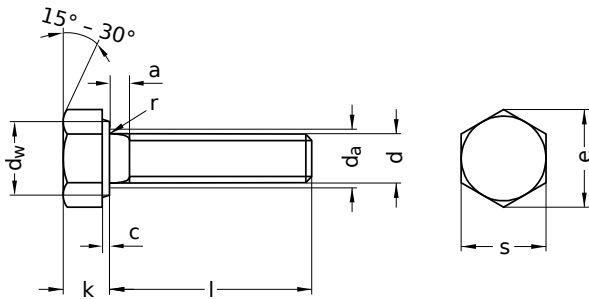
## Hexagon head bolts

Hexagon head | external hex | fully threaded

Steel 8.8 | bright | Cr(VI)-free | Metric thread

Further information: DIN-standard has been withdrawn | changed spanner widths for M10, M12, M14 and M22 | screws can be paired with a 6h tolerance-compliant female thread

There is a separation into product classes A and B, with the data sheet showing the largest range of values. For more information, see the technical details of the selected article.



Diameter (d)	a		c		d <sub>a</sub>	d <sub>w</sub>	e	k		r	s		Pitch (P)	Tool size	
	max.	min.	max.	min.	max.	min.	nominal size	min.	max.	min.	max.	min.			
M 3	1.50	0.15	0.4		3.6	4.6	6.04	2.0	1.88	2.12	0.10	5.5	5.32	0.50	SW 5,5
M 4	2.10	0.15	0.4		4.7	5.7	7.50	2.8	2.60	3.00	0.20	7.0	6.64	0.70	SW 7
M 5	2.40	0.15	0.5		5.7	6.7	8.63	3.5	3.35	6.35	0.20	8.0	7.64	0.80	SW 8
M 6	3.00	0.15	0.5		6.8	8.7	10.89	4.0	3.76	4.24	0.25	10.0	9.64	1.00	SW 10
M 8	3.75	0.15	0.6		9.2	11.4	14.20	5.3	5.06	5.54	0.40	13.0	12.57	1.25	SW 13
M 10	4.50	0.15	0.6		11.2	15.4	18.72	6.4	6.11	6.69	0.40	17.0	16.57	1.50	SW 17
M 12	5.25	0.15	0.6		13.7	17.2	20.88	7.5	7.21	7.79	0.60	19.0	18.48	1.75	SW 19
M 14	6.00	0.15	0.6		15.7	20.1	23.91	8.8	8.51	9.09	0.60	22.0	21.16	2.00	SW 22
M 16	6.00	0.20	0.8		17.7	22.0	26.17	10.0	9.71	10.29	0.60	24.0	23.16	2.00	SW 24
M 18	7.50	0.20	0.8		20.2	24.8	29.56	11.5	11.15	11.85	0.60	27.0	26.15	2.50	SW 27
M 20	7.50	0.20	0.8		22.4	27.7	32.95	12.5	12.15	12.85	0.80	30.0	29.16	2.50	SW 30
M 22	7.50	0.20	0.8		24.4	29.5	35.03	14.0	13.65	14.35	0.80	32.0	31.00	2.50	SW 32
M 24	9.00	0.20	0.8		26.4	33.2	39.55	15.0	14.65	15.35	0.80	36.0	35.00	3.00	SW 36
M 27	9.00	0.20	0.8		30.4	38.0	45.20	17.0	16.65	17.35	1.00	41.0	40.00	3.00	SW 41
M 30	10.50	0.20	0.8		33.4	42.7	50.85	18.7	18.28	19.12	1.00	46.0	45.00	3.50	SW 46
M 33	10.50	0.20	0.8		36.4	46.5	55.37	21.0	20.68	21.42	1.00	50.0	49.00	3.50	SW 50
M 36	12.00	0.20	0.8		39.4	51.1	60.79	22.5	22.08	22.92	1.00	55.0	53.80	4.00	SW 55
M 42	13.50	0.30	1.0		45.6	59.9	71.30	26.0	25.58	26.42	1.20	65.0	63.10	4.50	SW 65
M 48	15.00	0.30	1.0		52.6	69.4	82.60	30.0	29.58	30.42	1.60	75.0	73.10	5.00	SW 75

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Length (l)			Length (l)			Length (l)		
nominal size	min.	max.	nominal size	min.	max.	nominal size	min.	max.
4	3.76	4.24	45	43.75	46.25	160	158.00	162.00
5	4.76	5.24	50	48.75	51.25	170	168.00	172.00
6	5.76	6.24	55	53.50	56.50	180	178.00	182.00
8	7.71	8.29	60	58.50	61.50	190	187.70	192.30
10	9.71	10.29	65	63.50	66.50	200	197.70	202.30
12	11.65	12.35	70	68.50	71.50	210	207.70	212.30
14	13.65	14.35	75	73.50	76.50	220	217.70	222.30
16	15.65	16.35	80	78.50	81.50	230	227.70	232.30
18	17.65	18.35	85	83.25	86.75	250	247.70	252.30
20	19.58	20.42	90	88.25	91.75	260	257.40	262.60
22	20.95	23.05	100	98.25	101.75	280	277.40	282.60
25	23.95	26.05	110	108.25	111.75	300	297.40	302.60
28	26.95	29.05	120	118.25	121.75	320	317.15	322.85
30	28.95	31.05	130	128.00	132.00	340	337.15	342.85
35	33.75	36.25	140	138.00	142.00	400	397.15	402.85
40	38.75	41.25	150	148.00	152.00	500	496.85	503.15

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Diameter (d)	Length (l)																						
	4	5	6	8	10	12	14	16	18	20	22	25	28	30	35	40	45	50	55	60	65	70	75
M 3	●	●	●	●	●	●		●	●	●	●	●		●									
M 4			●	●	●	●	●	●	●	●	●	●		●	●	●	●	●		●		●	
M 5			●	●	●	●	●	●	●	●	●	●		●	●	●	●	●	●	●	●	●	●
M 6			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M 8				●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M 10					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M 12								●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M 14										●	●	●	●	●	●	●	●	●	●	●	●	●	●
M 16											●	●	●	●	●	●	●	●	●	●	●	●	●
M 18														●	●	●	●	●	●	●	●	●	●
M 20												●		●	●	●	●	●	●	●	●	●	●
M 22																●	●	●	●	●	●	●	●
M 24														●		●	●	●	●	●	●	●	●
M 27																				●	●	●	●
M 30																●		●	●	●	●	●	●
M 33																				●	●	●	●
M 36																				●	●	●	●
M 42																							
M 48																							

Diameter (d)	Length (l)																								
	80	85	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	250	260	280	300	320	340	400	500
M 3																									
M 4																									
M 5	●																								
M 6	●		●	●																					
M 8	●	●	●	●	●			●		●		●													
M 10	●	●	●	●	●	●		●	●	●	●	●													
M 12	●	●	●	●	●	●	●	●	●	●	●	●	●							●					
M 14	●	●	●	●	●	●							●												
M 16	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M 18	●		●	●	●	●									●	●	●	●			●		●		
M 20	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M 22	●		●	●	●	●																			
M 24	●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M 27	●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M 30	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M 33	●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M 36	●		●	●	●	●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M 42	●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M 48	●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

● Combinations available in the eShop | Other sizes on request

All technical data refer to the measure mm

